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US 20060030790 A1	US- PGPUB	20060209	63	Sample element with barrier material and vacuum	600/584		Braig; James R. et al.
US 20060004267 A1	US- PGPUB	20060105		Layered spectroscopic sample element with microporous membrane	600/310		Rule; Peter et al.
US 20050264815 A1	US- PGPUB	20051201		Sample element with fringing- reduction capabilities	356/440		Wechsler, Mark et al.
US 20050238538 A1	US- PGPUB	20051027	48	Analyte detection system with software download capabilities	422/82.05		Braig, James R. et al.
US 20050197790 A1	US- PGPUB	20050908		Method of determining an analyte concentration in a sample from an absorption spectrum	702/23	702/22	Sterling, Bernhard B. et al.
US 20050106749 A1	US- PGPUB	20050519		Sample element for use in material analysis	436/169	422/58	Braig, James R. et al.
US 20050070771 A1	US- PGPUB	20050331		Sample adapter	600/316	600/322	Rule, Peter et al.
US 20050038674 A1	US- PGPUB	20050217		System and method for managing a chronic medical condition	705/2	128/920; 435/14; 600/365	Braig, James R. et al.
US 20050038357 A1	US- PGPUB	20050217		Sample element with barrier material	600/583	600/584	Hartstein, Philip C. et al.
US 20050037482 A1	US- PGPUB	20050217		Dual measurement analyte detection system	435/287.1		Braig, James R. et al.
US 20050037384 A1	US- PGPUB	20050217		Analyte detection system	435/6	435/287.2	Braig, James R. et al.

US 20050036147 A1	US- PGPUB	20050217		Method of determining analyte concentration in a sample using infrared transmission data	356/436	356/39	Sterling, Bernhard B. et al.
US 20050036146 A1	US- PGPUB	20050217		Sample element qualification	356/436	356/246; 356/39; 356/440	Braig, James R. et al.
US 20040242975 A9	US- PGPUB	20041202		Device for capturing thermal spectra from tissue	600/309		Rule, Peter et al.
US 20040193024 A1	US- PGPUB	20040930		Calibrator	600/310	600/316	Braig, James R. et al.
US 20040138537 A1	US- PGPUB	20040715		Solid-state non- invasive thermal cycling spectrometer	600/309		Braig, James R. et al.
US 20040133084 A1	US- PGPUB	20040708		Layered spectroscopic sample element with microporous membrane	600/310		Rule, Peter et al.
US 20040132171 A1	US- PGPUB	20040708		Wearable device for measuring analyte concentration	435/287.2		Rule, Peter et al.
US 20040132168 A1	US- PGPUB	20040708		Sample element for reagentless whole blood glucose meter	435/287.1		Rule, Peter et al.
US 20040132167 A1	US- PGPUB	20040708		Cartridge lance	435/287.1		Rule, Peter et al.
US 20040093167 A1	US- PGPUB	20040513		Analyte detection system with software download capabilities	702/23		Braig, James R. et al.
US 20040087841 A1	US- PGPUB	20040506		Method and apparatus for determining analyte	600/310	250/339.03; 250/339.07; 250/341.6; 600/322	Braig, James R. et al.

				concentration using phase and magnitude detection of a radiation transfer function			
US 20040059206 A1	US- PGPUB	20040325		Method for transforming phase spectra to absorption spectra	600/310		Braig, James R. et al.
US 20040034291 A1	US- PGPUB	20040219		Method for determining analyte concentration using periodic temperature modulation and phase detection	600/316		Braig, James R. et al.
US 20040019431 A1	US- PGPUB	20040129		Method of determining an analyte concentration in a sample from an absorption spectrum	702/19	250/339.12; 600/316	Sterling, Bernhard B. et al.
US 20030199742 A1	US- PGPUB	20031023		Method for determining analyte concentration using periodic temperature modulation and phase detection	600/310	250/339.03; 250/341.6	Braig, James R. et al.
US 20030178569 A1	US- PGPUB	20030925		Pathlength-independent methods for optically determining material composition	250/339.09		Sterling, Bernhard B. et al.
US 20030175806 A1	US- PGPUB	20030918		Method and apparatus for improving the accuracy of alternative site analyte	435/7.1	702/19	Rule, Peter et al.

				concentration measurements			
US 20030146385 A1	US- PGPUB	20030807		Method and apparatus for adjusting signal variation of an electronically controlled infrared transmissive window	250/339.04		Zheng, Peng et al.
US 20030143116 A1	US- PGPUB	20030731		Method for adjusting a blood analyte measurement	422/68.1	436/149	Zheng, Peng et al.
US 20030133118 A1	US- PGPUB	20030717		Method for transforming phase spectra to absorption spectra	356/432		Braig, James R. et al.
US 20030108976 A1	US- PGPUB	20030612		Method and apparatus for improving clinical accuracy of analyte measurements	435/14	205/777.5	Braig, James R. et al.
US 20030090649 A1	US- PGPUB	20030515		Reagent-less whole-blood glucose meter	356/39		Sterling, Bernhard B. et al.
US 20030086075 A1	US- PGPUB	20030508		Device and method for in vitro determination of analyte concentrations within body fluids	356/39		Braig, James R. et al.
US 20030086074 A1	US- PGPUB	20030508		Device and method for in vitro determination of analyte concentrations within body fluids	356/39		Braig, James R. et al.
US 20030086073 A1	US- PGPUB	20030508		Reagent-less whole-blood glucose meter	356/39		Braig, James R. et al.
US	US-	20030327		Sample adapter	600/322		Rule, Peter

20030060694 A1	PGPUB						et al.
US 20030040683 A1	US- PGPUB	20030227		Site selection for determining analyte concentration in living tissue	600/584		Rule, Peter et al.
US 20030040663 A1	US- PGPUB	20030227		Device for capturing thermal spectra from tissue	600/309		Rule, Peter et al.
US 20030036688 A1	US- PGPUB	20030220		Calibrator	600/322		Braig, James R. et al.
US 20030032872 A1	US- PGPUB	20030213		Device for isolating regions of living tissue	600/309	600/316; 600/322	Rule, Peter et al.
US 20030011764 A1	US- PGPUB	20030116		Blanking standard for non-invasive optical measurement	356/243.5		Braig, James R. et al.
US 20020068858 A1	US- PGPUB	20020606		Glucose monitoring instrument having network connectivity	600/316		Braig, James R. et al.
US 20020043651 A1	US- PGPUB	20020418		Fluorescent lifetime assays for non-invasive quantification of analytes such as glucose	252/408.1		Darrow, Christopher B. et al.
US 7061593 B2	USPAT	20060613		Device and method for in vitro determination of analyte concentrations within body fluids	356/39		Braig; James R. et al.
US 7050157 B2	USPAT	20060523		Reagent-less whole-blood glucose meter	356/39		Braig; James R. et al.
US 7009180 B2	USPAT	20060307		Pathlength- independent methods for optically	250/339.12	250/339.09; 250/343	Sterling; Bernhard B. et al.

				determining material composition			
US 7006857 B2	USPAT	20060228		Method for determining analyte concentration using periodic temperature modulation and phase detection	600/310	250/339.03; 250/339.07; 250/341.6; 600/322	Braig; James R. et al.
US 6989891 B2	USPAT	20060124		Device and method for in vitro determination of analyte concentrations within body fluids	356/39	356/246	Braig; James R. et al.
US 6983177 B2	USPAT	20060103		Layered spectroscopic sample element with microporous membrane	600/310		Rule; Peter et al.
US 6959211 B2	USPAT	20051025		Device for capturing thermal spectra from tissue	600/310	600/316	Rule; Peter et al.
US 6958809 B2	USPAT	20051025		Reagent-less whole-blood glucose meter	356/39		Sterling; Bernhard B. et al.
US 6944486 B2	USPAT	20050913		Method and apparatus for determining analyte concentration using phase and magnitude detection of a radiation transfer function	600/310	250/339.03; 250/339.07; 250/341.6; 600/322	Braig; James R. et al.
US 6931328 B2	USPAT	20050816		Analyte detection system with software download capabilities	702/23	607/31; 607/60; 702/182; 702/188; 702/19; 707/10;	Braig; James R. et al.

						707/104.1; 709/219; 709/220; 713/100; 717/168; 717/171	
US 6917038 B2	USPAT	20050712		Method and apparatus for adjusting signal variation of an electronically controlled infrared transmissive window	250/339.04	250/336.1; 250/338.1; 250/339.01	Zheng; Peng et al.
US 6884222 B1	USPAT	20050426		Method and apparatus for estimation of resting respiratory quotient	600/531	600/529; 600/532	Braig; James R.
US 6862534 B2	USPAT	20050301		Method of determining an analyte concentration in a sample from an absorption spectrum	702/23	702/22	Sterling; Bernhard B. et al.
US 6825044 B2	USPAT	20041130		Method for adjusting a blood analyte measurement	436/164	422/82.05; 422/82.07; 436/172	Zheng; Peng et al.
US 6771993 B2	USPAT	20040803		Sample adapter	600/316	600/322; 600/365	Rule; Peter et al.
US 6731961 B2	USPAT	20040504		Method for transforming phase spectra to absorption spectra	600/310	250/339.07; 250/341.6; 600/322	Braig; James R. et al.
US 6678542 B2	USPAT	20040113		Calibrator configured for use with noninvasive analyte-concentration monitor and employing traditional measurements	600/316	600/310; 600/365	Braig; James R. et al.



US 6645142 B2	USPAT	20031111		Glucose monitoring instrument having network connectivity	600/300	128/903; 128/904; 340/501; 600/316	Braig; James R. et al.
US 6636753 B1	USPAT	20031021		Solid-state non-invasive infrared absorption spectrometer for the generation and capture of thermal gradient spectra from living tissue	600/310	250/339.03; 250/341.6	Braig; James R. et al.
US 6633771 B1	USPAT	20031014		Solid-state non-invasive thermal cycling spectrometer	600/310	250/339.03; 250/341.6	Braig; James R. et al.
US 6631282 B2	USPAT	20031007		Device for isolating regions of living tissue	600/344		Rule; Peter et al.
US 6580934 B1	USPAT	20030617		Method and apparatus for determining analyte concentration using phase and magnitude detection of a radiation transfer function	600/310	250/339.03; 250/339.07; 250/341.6; 600/322	Braig; James R. et al.
US 6577885 B1	USPAT	20030610		Method for determining analyte concentration using periodic temperature modulation and phase detection	600/310	250/339.03; 250/339.07; 250/341.6; 600/322	Braig; James R. et al.
US 6556850 B1	USPAT	20030429		Method for determining analyte concentration using periodic temperature modulation and phase detection	600/310	250/339.03; 250/339.07; 250/341.6; 600/322	Braig; James R. et al.

US 6198949 B1	USPAT	20010306		Solid-state non-invasive infrared absorption spectrometer for the generation and capture of thermal gradient spectra from living tissue	600/310	250/339.03; 250/341.6	Braig; James R. et al.
US 6196046 B1	USPAT	20010306		Devices and methods for calibration of a thermal gradient spectrometer	73/1.03		Braig; James R. et al.
US 6161028 A	USPAT	20001212		Method for determining analyte concentration using periodic temperature modulation and phase detection	600/316	250/339.03; 250/339.07; 250/341.6; 600/309; 600/310; 600/322	Braig; James R. et al.
US 6095986 A	USPAT	20000801		Disposable anti-fog airway adapter	600/532	128/204.23; D24/129	Braig; James R. et al.
US 6091504 A	USPAT	20000718		Method and apparatus for measuring gas concentration using a semiconductor laser	356/437	250/343; 356/409	Walker; Stephen D. et al.
US 6086620 A	USPAT	20000711		Audio sample tracker	703/13	360/69; 710/61	Oliver; Richard J. et al.
US 6072180 A	USPAT	20000606		Non-invasive infrared absorption spectrometer for the generation and capture of thermal gradient spectra from living tissue	250/341.6	250/339.03	Kramer; Charles E. et al.
US 6049081 A	USPAT	20000411		Subsurface thermal gradient spectrometry	250/339.03	250/252.1; 250/339.07; 250/341.6; 250/341.8	Sterling; Bernhard B. et al.

US 6025597 A	USPAT	20000215		Non-invasive infrared absorption spectrometer for measuring glucose or other constituents in a human or other body	250/341.6	250/339.03; 250/339.12; 250/340	Sterling; Bernhard B. et al.
US 6012031 A	USPAT	20000104		Variable-length moving-average filter	704/500	704/503	Oliver; Richard J. et al.
US 5932877 A	USPAT	19990803		High performance side stream infrared gas analyzer	250/343	250/252.1; 250/339.13; 600/532; 73/23.3	Braig; James R. et al.
US 5910995 A	USPAT	19990608		DSP decoder for decoding analog SR encoded audio signals	381/106	381/108; 381/22; 381/23	Mercs; Laura et al.
US 5900632 A	USPAT	19990504		Subsurface thermal gradient spectrometry	250/339.03	250/252.1; 250/339.07; 250/341.6; 250/341.8	Sterling; Bernhard B. et al.
US 5877500 A	USPAT	19990302		Multichannel infrared detector with optical concentrators for each channel	250/353	250/332	Braig; James R. et al.
US 5615672 A	USPAT	19970401		Self-emission noninvasive infrared spectrophotometer with body temperature compensation	600/474		Braig; James R. et al.
US 5609576 A	USPAT	19970311		Fluid flow impedance monitoring system	604/67	128/925; 128/DIG.13; 604/153; 604/246	Voss; Gregory I. et al.
US 5515847 A	USPAT	19960514		Self-emission noninvasive infrared spectrophotometer	600/316	600/475	Braig; James R. et al.
US 5376555 A	USPAT	19941227		Method for testing breath alcohol	436/132	422/84; 436/133;	Forrester; Glenn C. et

				with discrimination between alveolar and upper respiratory tract alcohol		436/900; 600/532; 73/23.3	al.
US 5313941 A	USPAT	19940524		Noninvasive pulsed infrared spectrophotometer	600/322	356/41; 600/314; 600/316	Braig; James R. et al.
US 5296706 A	USPAT	19940322		Shutterless mainstream discriminating anesthetic agent analyzer	250/339.13	250/343; 250/345; 600/532	Braig; James R. et al.
US 5282473 A	USPAT	19940201		Sidestream infrared gas analyzer requiring small sample volumes	600/532	250/343	Braig; James R. et al.
US 5281817 A	USPAT	19940125		Method of selecting an optical filter for a shutterless optically stabilized capnograph	250/343		Yelderman; Mark L. et al.
US D342135 S	USPAT	19931207		Airway adapter	D24/129	D24/110	Goldberger; Daniel S. et al.
US 5247185 A	USPAT	19930921		Regulated infrared source	250/504R	219/497; 219/553; 250/493.1; 250/495.1; 392/407	Herrera; Roger O. et al.
US 5159936 A	USPAT	19921103		Noncontact infrared tympanic thermometer	600/549	374/126; 374/158; 600/474	Yelderman; Mark et al.
US 5129401 A	USPAT	19920714		Method for distinguishing respiratory events in a gas analyzer	600/529	346/33ME; 600/532; 600/538; 600/549	Corenman; James E. et al.
US 5095913 A	USPAT	19920317		Shutterless optically stabilized capnograph	600/532	250/339.13; 250/343; 250/345	Yelderman; Mark et al.
US 5081998	USPAT	19920121		Optically	600/532	250/339.02;	Yelderman;

A				stabilized infrared energy detector		250/339.13	Mark et al.
US 5067492 A	USPAT	19911126		Disposable airway adapter	600/532	128/204.23	Yelderman; Mark et al.
US 5048528 A	USPAT	19910917		Alias suppression in pulsed doppler systems	600/455	73/861.25	Superina; Laura et al.
US 5042522 A	USPAT	19910827		Airway adapter with backflush tube	137/239	137/550; 55/302; 600/532	Corenman; James E. et al.
US 4907166 A	USPAT	19900306		Multichannel gas analyzer and method of use	702/30	600/532	Corenman; James E. et al.
US 4817013 A	USPAT	19890328		Multichannel gas analyzer and method of use	702/30	250/343; 356/437; 422/83	Corenman; James E. et al.
US 4809249 A	USPAT	19890228		Apparatus for ultrasound flow mapping	367/100	600/454; 708/423	Barnes; Casper W.
US 4761752 A	USPAT	19880802		Fractional step correlator	708/422		Barnes; Casper W.
US 4676250 A	USPAT	19870630		Method and apparatus for estimating the attenuation-vs-frequency slope of a propagation medium from the complex envelope of a signal	600/442	73/599; 73/602	Barnes; Casper W.
US 4600412 A	USPAT	19860715		Water separator	96/417	128/205.12; 55/392; 55/426	Liston; Max D. et al.
US 4586026 A	USPAT	19860429		Infrared gas analyzer using count quadrature sampling	341/163	250/343; 250/565	Braig; James R. et al.
US 4542744 A	USPAT	19850924		Method and apparatus for remote tissue identification by statistical modeling and hypothesis testing of echo ultrasound signals	600/449	600/443; 73/602	Barnes; Casper W. et al.

US 4512196 A	USPAT	19850423		Ultrasound imaging with FM detection	73/620	73/606; 73/633; 73/642	Barnes; Casper W.
US 4057791 A	USPAT	19771108		Motion responsive alarm system	340/571	200/61.47; 340/429; 340/566; 340/691.8; 340/692; 73/654	Bimmerle; Charles F. et al.